

**Figure 1**

Figure 1 consists of two panels, (a) and (b), showing histograms of the number of non-zero elements in the vectors  $\tilde{v}_k$ . Panel (a) shows the distribution for  $k=1$ , and panel (b) shows it for  $k=2$ . Both panels have a logarithmic y-axis representing frequency, ranging from  $10^0$  to  $10^6$ , and an x-axis representing the number of non-zero elements, ranging from  $10^0$  to  $10^7$ . The distributions are highly skewed towards zero.

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